

Algebra 2
Chapter 5 Review (5.1 - 5.3)

Name _____ KEY _____

1. $-64a^{12}b^3c^9$	2. $\frac{2x^3}{3y^5}$	
3. $\frac{y^5}{54x^7}$	4. $\frac{4r^4w^{12}}{9t^6}$	
5. $m^{34}n^{36}p^{30}$	6. $\frac{2t^2}{p^2}$	
7. $-9x^2 - 3x - 4$	8. $x^3 - 3x^2 + 6x - 4$	
9. $4x^2 - 12x + 9$	10. $-12x^3y^4 + 15x^4y^3$	
11. $5ab - \frac{4b^2}{a} + 3a^4$		
12. $m - 5 + \frac{3}{m+2}$	13. $4x^3 + 4x^2 + 12x + 24 + \frac{39}{x-3}$	
14. $2x + 1$	15. $-3x^2 - 2x + 1 - \frac{9}{2x-3}$	
16. $(6y^2 + y - 12) \cdot ft$		
17. yes ; degree = 5 LC = -5	18. yes ; degree = 3 LC = 7	19. no ; there is a negative exponent
20. $5p(2) = 0$ $p(3a) = -9a^2 + 6a$	21. $5p(2) = 70$ $p(3a) = 27a^3 + 9a$	
22a. a) as $x \rightarrow -\infty$, $f(x) \rightarrow \infty$ as $x \rightarrow \infty$, $f(x) \rightarrow \infty$ b) even c) 6	22b. a) as $x \rightarrow -\infty$, $f(x) \rightarrow -\infty$ as $x \rightarrow \infty$, $f(x) \rightarrow -\infty$ b) even c) 1	22c. a) as $x \rightarrow -\infty$, $f(x) \rightarrow \infty$ as $x \rightarrow \infty$, $f(x) \rightarrow -\infty$ b) odd c) 3